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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO
09/497,520	02/04/2000	Hyun-doo Shin	Q53233	7584
	590 08/13/2003			
Sughrue, Mion, Zinn, Macpeak & Seas, PLLC 2100 Pennsyvania Avenue N.W.			EXAMINER	
				I, JEROME
			ART UNIT	PAPER NUMBER
			2626	5
			DATE MAILED: 08/13/2003	

Please find below and/or attached an Office communication concerning this application or proceeding.

Of.

	Application No.	. Applicant(s)	
, <i>c</i>	09/497,520	SHIN ET AL.	
Office Action Summary	Examiner	Art Unit	
	Jerome Grant II		
The MAILING DATE of this communication ap	opears on the cove		e address
A SHORTENED STATUTORY PERIOD FOR REPI THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1. after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a rej - If NO period for reply is specified above, the maximum statutory period - Failure to reply within the set or extended period for reply will, by statu - Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).		ever, may a reply be timely filed nimum of thirty (30) days will be considered SIX (6) MONTHS from the mailing date of to become ARANDONED (35.11.S.C. 8.133)	this communication
Status 1) Responsive to communication(s) filed on			
1) Responsive to communication(s) filed on		nol	
-	his action is non-fi		_ Al-
 Since this application is in condition for allow closed in accordance with the practice under Disposition of Claims 	vance except for for for For Ex parte Quayle,	7111at matters, prosecution as t 1935 C.D. 11, 453 O.G. 213.	ιο τηe merits is
4)⊠ Claim(s) <u>1-22,24-27 and 29-49</u> is/are pending	g in the applicatior	١.	
4a) Of the above claim(s) is/are withdra	- ''		
5) Claim(s) is/are allowed.			
6)⊠ Claim(s) <u>1,2,19,22,38,39,44 and 45</u> is/are reje	∍cted.		
7) Claim(s) 3-18,24-27,29-37,40-43 and 46-49 is			
8) Claim(s) are subject to restriction and/o		ment.	
Application Papers	7-7-		
9) The specification is objected to by the Examine	er.		
10) The drawing(s) filed on is/are: a) □ acce	epted or b) objecte	ed to by the Examiner.	
Applicant may not request that any objection to the	he drawing(s) be held	d in abeyance. See 37 CFR 1.85	• •
11) The proposed drawing correction filed on			• •
If approved, corrected drawings are required in re		ion.	
12) The oath or declaration is objected to by the Ex	xaminer.		
riority under 35 U.S.C. §§ 119 and 120			
13) Acknowledgment is made of a claim for foreig	n priority under 35	U.S.C. § 119(a)-(d) or (f).	
a) ☐ All b) ☐ Some * c) ☐ None of:			
1. Certified copies of the priority document	ts have been recei	ved.	
2. Certified copies of the priority document			
3. Copies of the certified copies of the prio application from the International Bu	ority documents ha	ve been received in this Natior 7.2(a)).	
* See the attached detailed Office action for a list			
14) Acknowledgment is made of a claim for domesti			onal application).
 a) ☐ The translation of the foreign language properties. 15) ☐ Acknowledgment is made of a claim for domest cachment(s) 			JEROME CHAN' PRIMARY EXAMI
		Internities 2	•
Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948) Information Disclosure Statement(s) (PTO-1449) Paper No(s) 9	5) 🗍	Interview Summary (PTO-413) Paper Notice of Informal Patent Application (Other:	· No(s) (PTO-152)
stent and Trademark Office -326 (Rev. 04-01) Office Ac	tion Summary	Part of Paper No.	2

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Detailed Action

- 1. Claims 23 and 28 have been canceled by a pre-liminary amendment.
- 2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States. Claims 1, 2, 19, 22, 38, 39, 44 and 45 are rejected under 35 U.S.C. 102(b) as being

anticipated by Young.

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With respect to claim 1, Young teaches a color image processing method comprising the steps of:

sorting image pixels according to a color distance (d), according to col. 9, lines 30-35, between image pixels P(n) and a central pixel C(r); grouping the sorted pixels into groups in which a difference intragroup color distance is minimum (see col. 9, lines 44-46) and a difference in intergroup color difference is maximum (see col. 9, lines 40-43); and performing filtering by replacing a central pixel C(r) value with a predetermined pixel value C(j) determined by pixel values of pixels in the groups, see col. 9, lines 46-57.

With respect to claim 2, Young teaches a circular window defined by (HSV) coordinates, see figures 6a and 6b.

With respect to claim 19, Young teaches a color image priocessing method comprising the steps of:

receiving a color image frame (18) and segmenting the same into a plurality of color images (RGB values; sorting image pixels according to a color distance (d), according to col. 9, lines 30-35, between image pixels P(n) and a central pixel C(r); grouping the sorted pixels into groups in which a difference intragroup color distance is minimum (see col. 9, lines 44-46) and a difference in intergroup color difference is maximum (see col. 9, lines 40-43); and performing filtering by

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replacing a central pixel C(r) value with a predetermined pixel value C(j) determined by pixel values of pixels in the groups, see col. 9, lines 46-57.

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With respect to claim 22, Young teaches a circular window defined by (HSV) coordinates. see figures 6a and 6b.

With respect to claim 38, Young teaches defining a circular window (see figures 6a and 6b) having a predetermined size with an input color, selecting pixels having a color vector C(i) similar to that of a central pixel C(r) within the window and defining the selected pixels as a group; and performing filtering of blurring (using the Shadow Theorem, explained at col. 11, lines 11-19.

With respect to claim 39, Young teaches a computer readable medium (25) having program codes executable by a computer to perform a color image processing method, comprising the steps of: receiving a color image frame (18) and segmenting the same into a plurality of color images (RGB values; sorting image pixels according to a color distance (d), according to col. 9, lines 30-35, between image pixels P(n) and a central pixel C(r); grouping the sorted pixels into groups in which a difference intragroup color distance is minimum (see col. 9, lines 44-46) and a difference in intergroup color difference is maximum (see col. 9, lines 40-43); and performing

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filtering by replacing a central pixel C(r) value with a predetermined pixel value C(i) determined

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by pixel values of pixels in the groups, see col. 9, lines 46-57.

With respect to claim 44, Young teaches a color image frame, obtained from a frame grabber

18, and segmenting the images (rgb values).

With respect to claim 45, Young teaches a color image processing method, comprising:

sorting means 14 and 15 as shown in figure 2, for setting a window of a predetermined size within

an input color image and sorting image pixels in he window according to a color distance between

the image pixels P(n) and a central pixel C(r); grouping means 15 for grouping the sorted pixels

into groups in which a difference in an intragroup color distance is minimum and a difference in an

intergroup color difference maximum; and filtering means via the ordered file (see col. 9, lines 46-

57).

Claims Objected Containing Allowable Matter

3. Claims 3-18, 24-27, 29-37, 40-43 and 46-49 are objected to as being dependent upon a

rejected base claim, but would be allowable if rewritten in independent form including all of the

limitations of the base claim and any intervening claims.

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4. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Jerome Grant II whose telephone number is 305-4391. The examiner can normally be reached on Mon. from 9:00 to 5:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Kimberly Williams, can be reached on (703) 305-4863. The fax phone number for the organization where this application or proceeding is assigned is 872-9314.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 305-3900.

J. Grant II

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